1/4

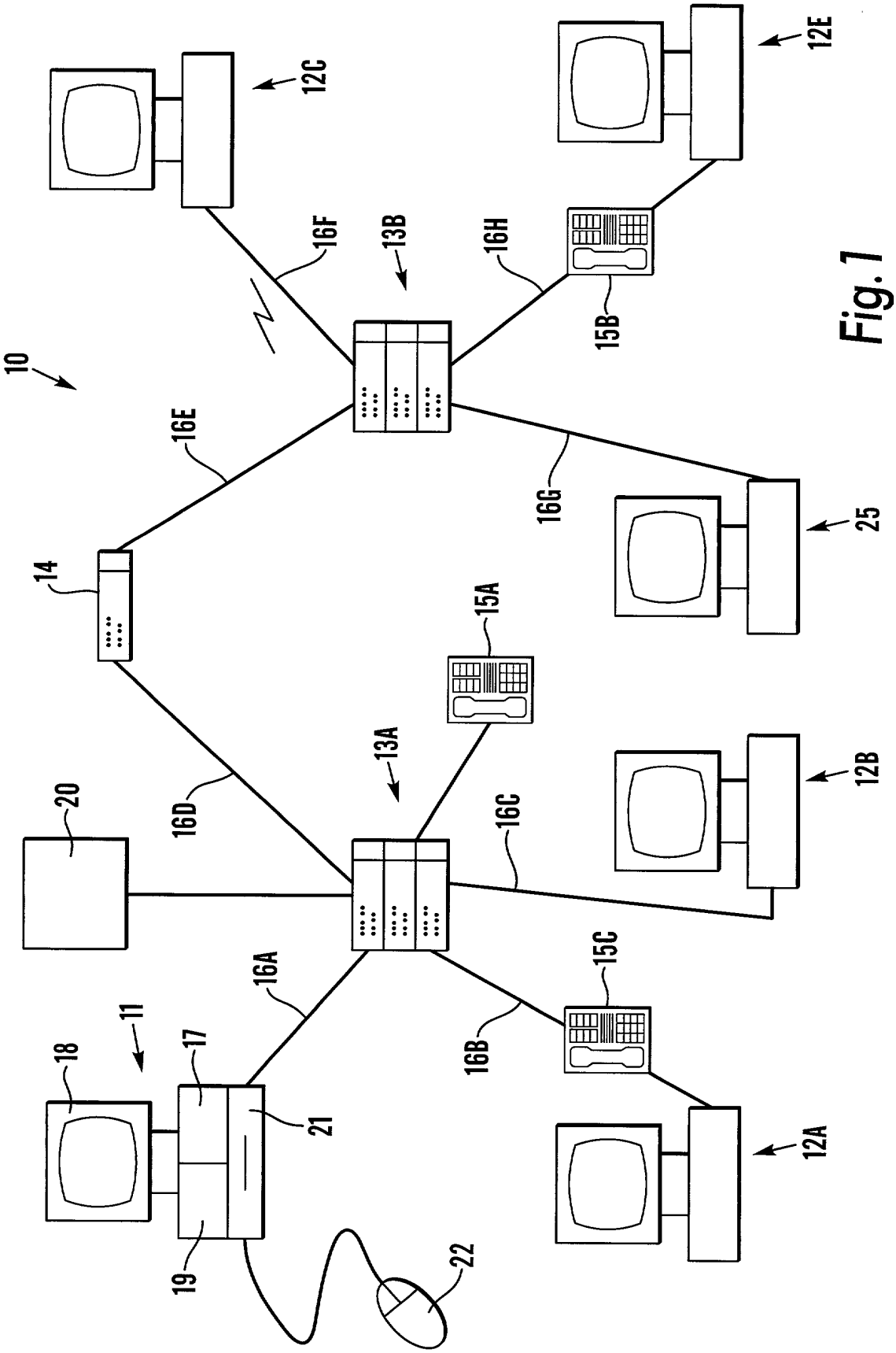
10
11
12A
12B
12C
12E
13A
13B
14
15A
15B
15C
16A
16B
16C
16D
16E
16F
16G
16H
17
18
19
20
21
22
25

Fig. 1

2/4

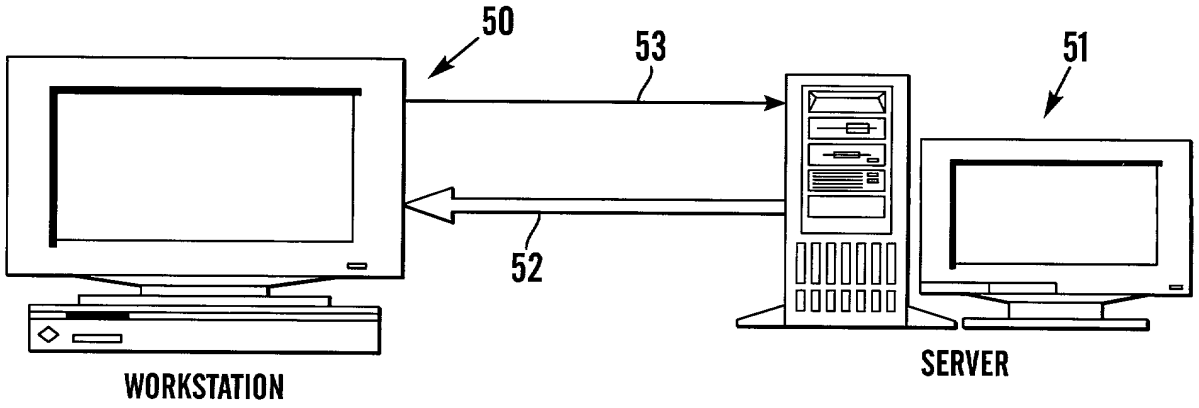
50
53
51
52
WORKSTATION
SERVER

Fig.2

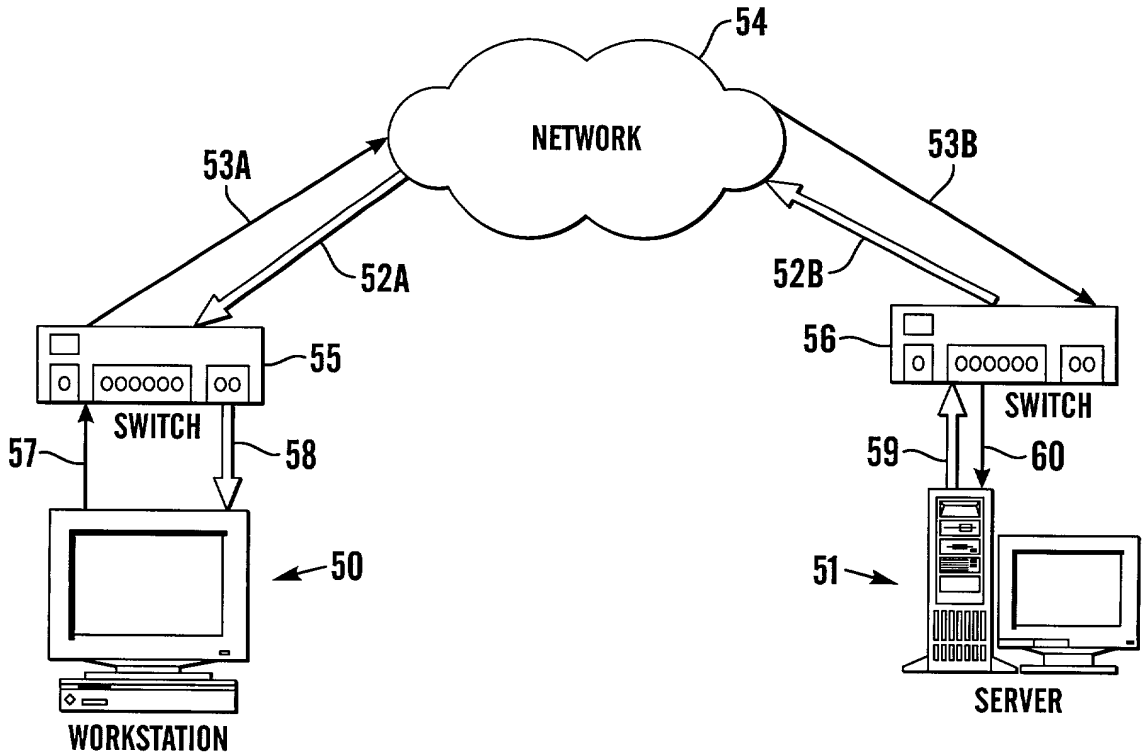
54
NETWORK
53A
53B
52A
52B
55
56
SWITCH
SWITCH
57
58
59
60
50
51
WORKSTATION
SERVER

Fig.3

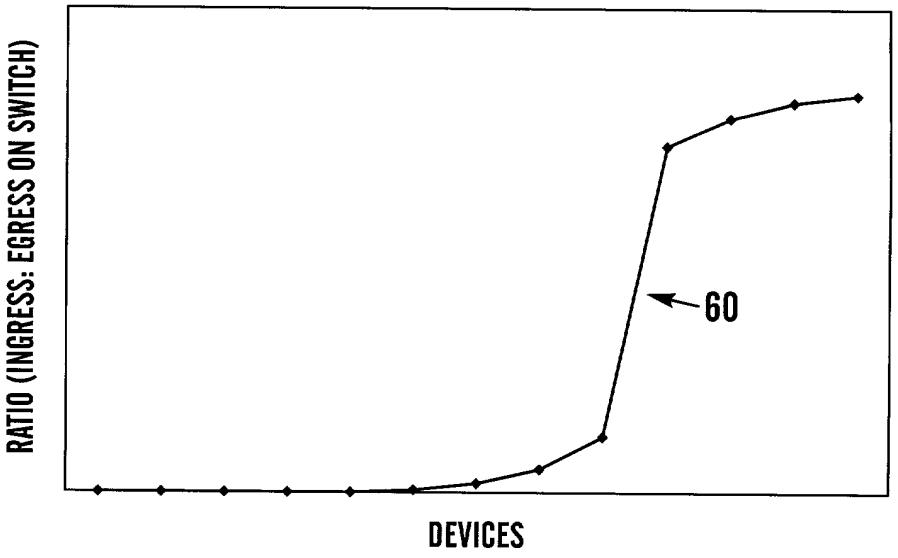

Fig.4

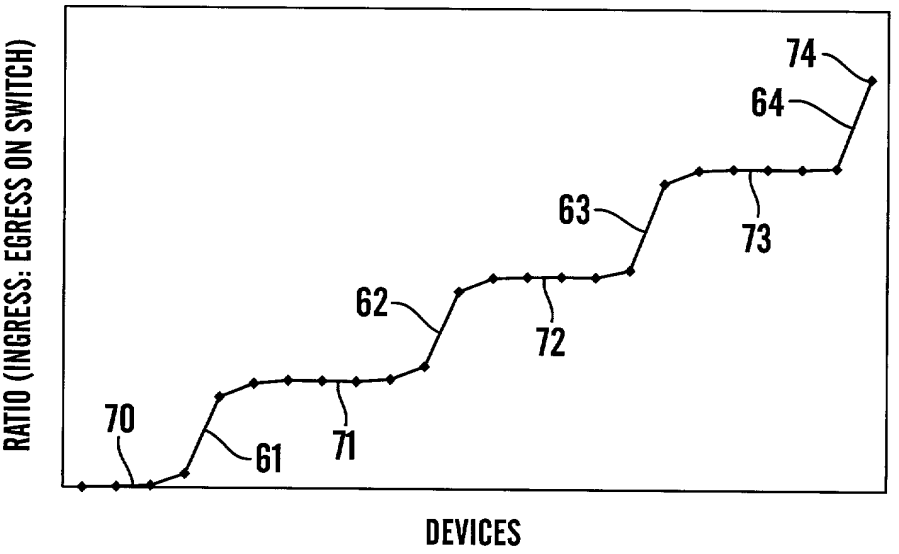

Fig.5

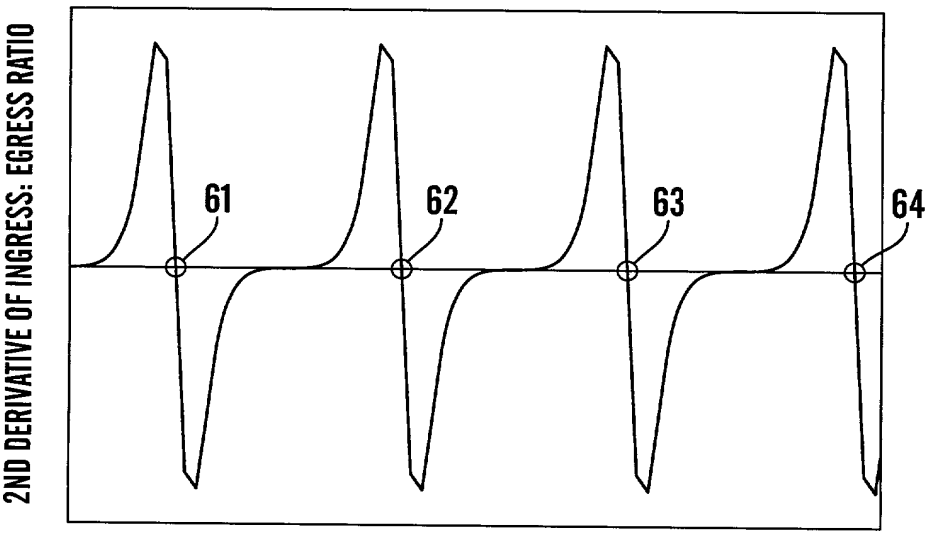

Fig.6

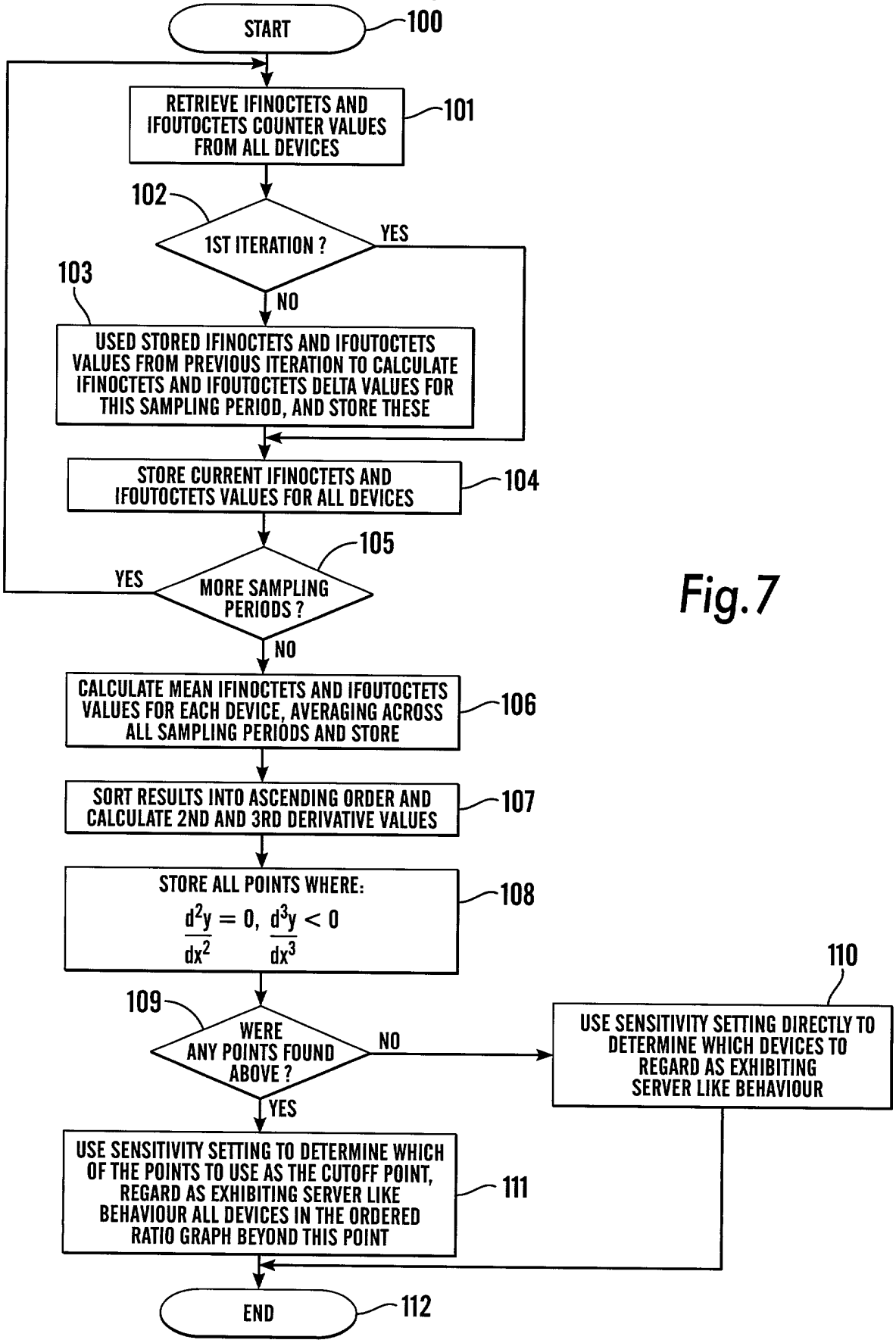
START
100
RETRIEVE IFINOCTETS AND IFOUTOCTETS COUNTER VALUES FROM ALL DEVICES
101
102
1ST ITERATION ?
YES
NO
103
USED STORED IFINOCTETS AND IFOUTOCTETS VALUES FROM PREVIOUS ITERATION TO CALCULATE IFINOCTETS AND IFOUTOCTETS DELTA VALUES FOR THIS SAMPLING PERIOD, AND STORE THESE
STORE CURRENT IFINOCTETS AND IFOUTOCTETS VALUES FOR ALL DEVICES
104
105
MORE SAMPLING PERIODS ?
YES
NO
CALCULATE MEAN IFINOCTETS AND IFOUTOCTETS VALUES FOR EACH DEVICE, AVERAGING ACROSS ALL SAMPLING PERIODS AND STORE
106
SORT RESULTS INTO ASCENDING ORDER AND CALCULATE 2ND AND 3RD DERIVATIVE VALUES
107
STORE ALL POINTS WHERE:
$\frac{d^2y}{dx^2} = 0, \frac{d^3y}{dx^3} < 0$
108
109
WERE ANY POINTS FOUND ABOVE ?
NO
YES
110
USE SENSITIVITY SETTING DIRECTLY TO DETERMINE WHICH DEVICES TO REGARD AS EXHIBITING SERVER LIKE BEHAVIOUR
USE SENSITIVITY SETTING TO DETERMINE WHICH OF THE POINTS TO USE AS THE CUTOFF POINT, REGARD AS EXHIBITING SERVER LIKE BEHAVIOUR ALL DEVICES IN THE ORDERED RATIO GRAPH BEYOND THIS POINT
111
END
112

Fig.7